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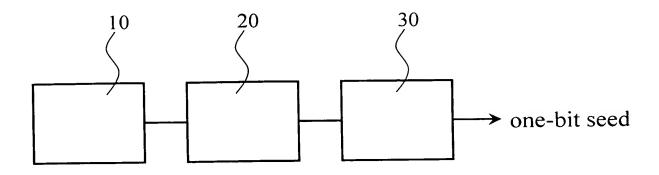
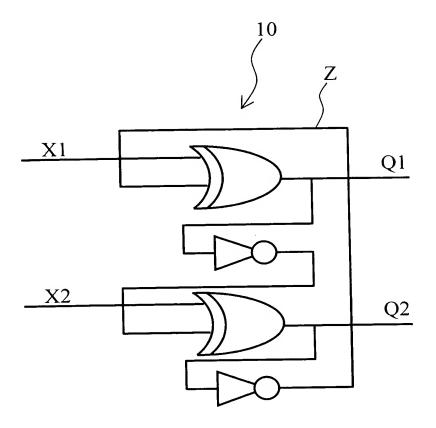


FIG.1



If X1=X2,

an operation equivalent to a flip-flop having even inverters

In the case of Z=1

- when X1=X2, Q1=0, Q2=0
- when X1=X2=0, Q1=1, Q2=0

In the case of Z=0

- when X1=X2, Q1=1, Q2=1
- when X1=X2=0, Q1=1, Q2=0

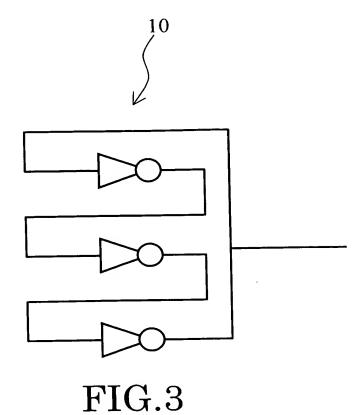
If $X1\neq X2$,

an operation as a ring oscillator

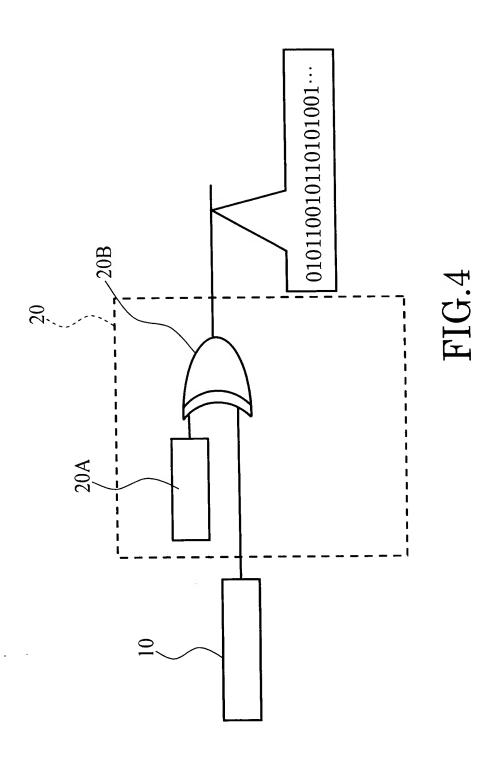
FIG.2

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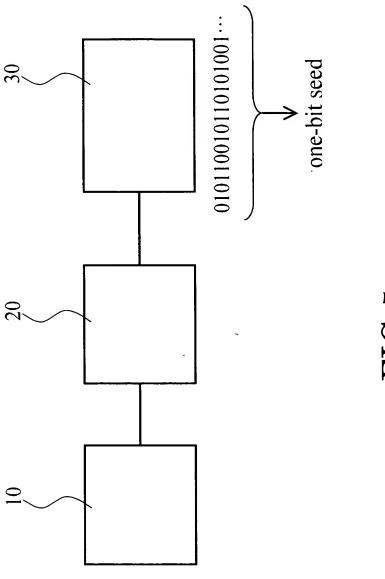
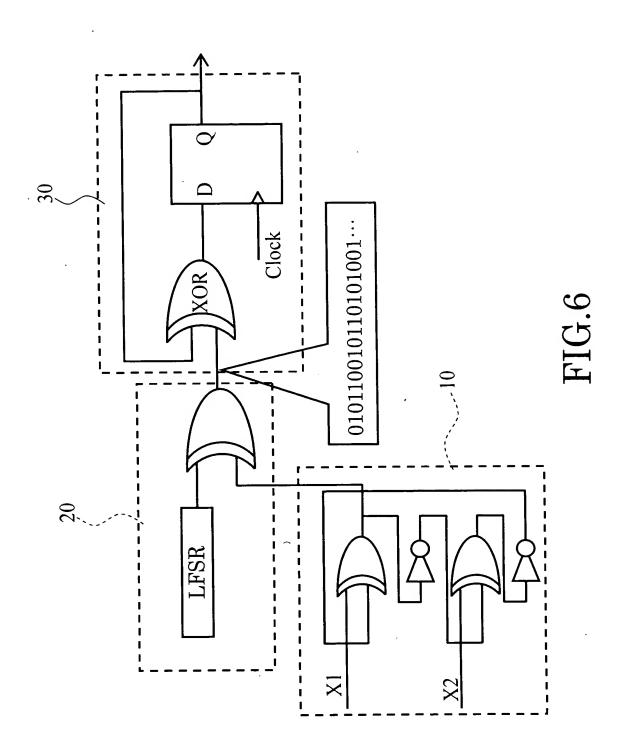
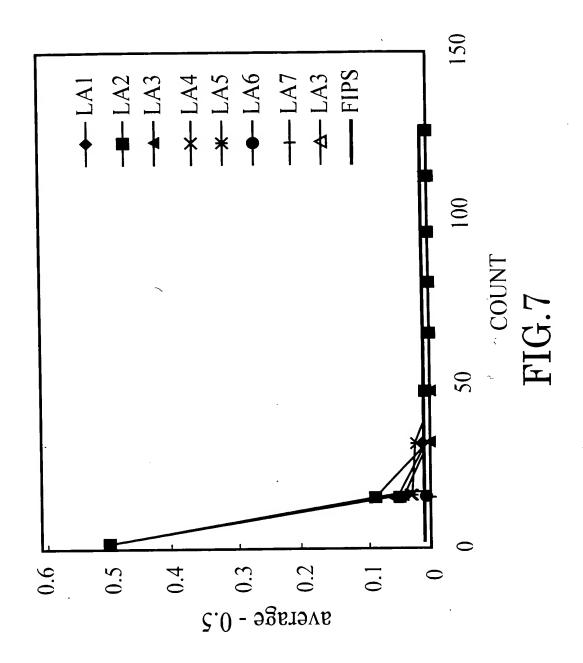


FIG.5

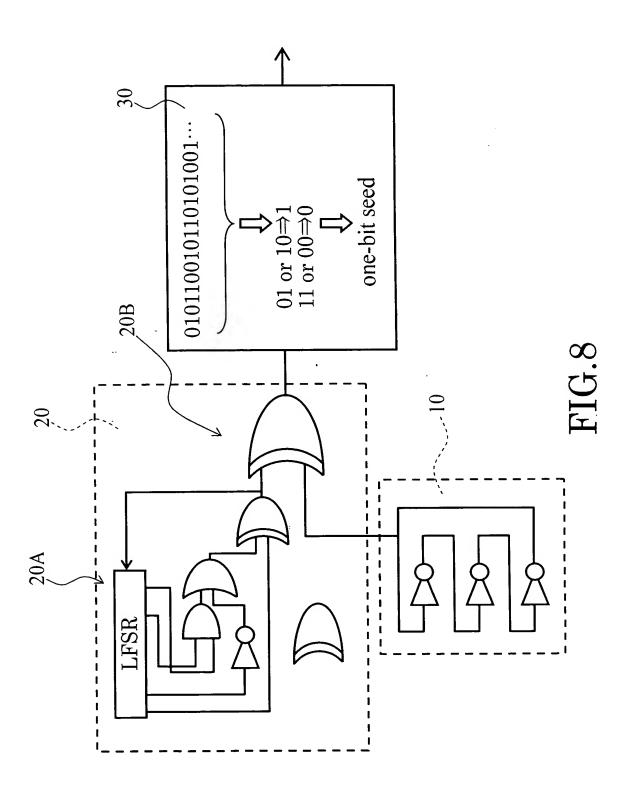
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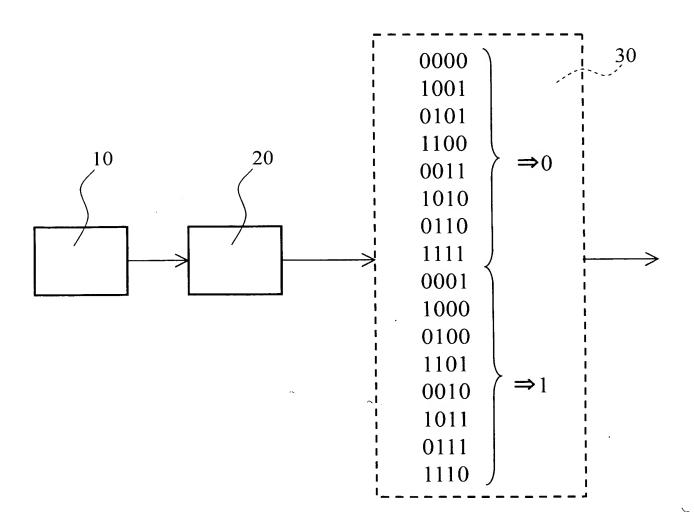
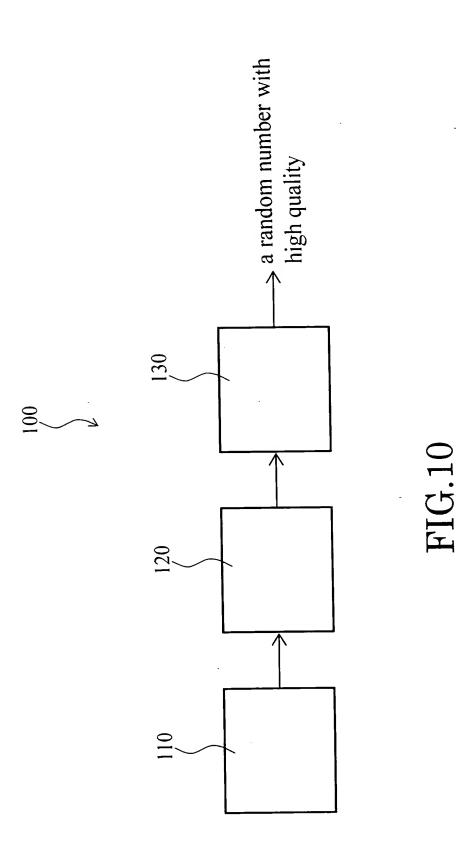
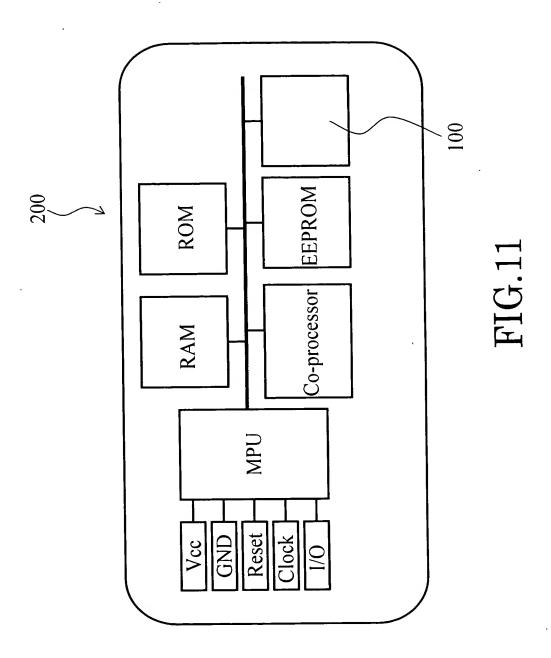


FIG.9



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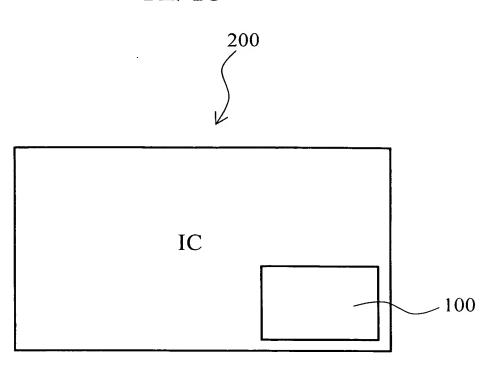


FIG.12

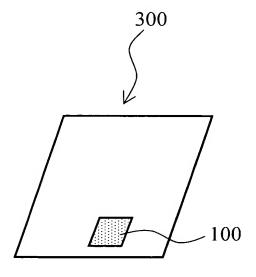


FIG.13

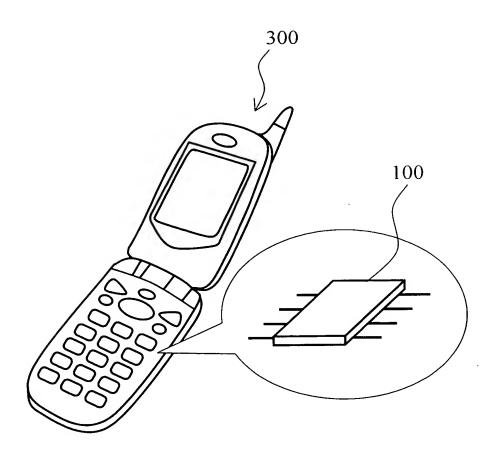
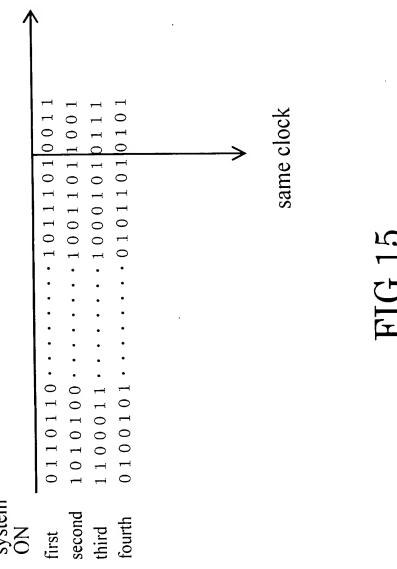


FIG.14



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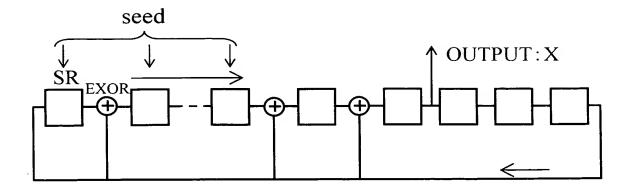


FIG.16A

FIG.16B

FIG.16C